

Claims

1. A device for winding a card clothing (4) onto a roll (6) with a roll drive unit (7) and a braking device (5) acting on the card clothing (4) for generating a winding pretension in a region (12) of the card clothing (4) between roll (6) and braking device (5), **characterized in** that a force measuring device (34) is provided which is configured to measure the force acting on a mounting point of the braking device (5), essentially in a direction longitudinal to a winding direction of the card clothing (4).
2. The device according to claim 1, **characterized in** that the braking device (5) is arranged on a slide construction (28) which is movably arranged substantially in a direction longitudinal to the winding direction of the card clothing (4) relative to a stop means (33), the force measuring device (34) being configured to measure, at least in a winding operation, the support force of the slide construction (28) on the stop means.
3. The device according to claim 1 or 2, **characterized in** that the force measuring device comprises a strain-gage force transducer.
4. The device according to any one of claims 1 to 3, **characterized in** that at least part of the force measuring device (34) is arranged between the slide construction (28) and the stop means (33).
5. The device according to any one of claims 1 to 4, **characterized in** that the slide construction (28) comprises at least one ball bushing (31) guided on at least one cylindrical rod (32).
6. The device according to any one of claims 1 to 5, **characterized in** that the braking device (5) comprises brake shoes (21) acting on the card clothing (4), which comprise at least a brake lining of a ceramic material.

7. The device according to any one of claims 1 to 6, **characterized in** that a recording device is provided which at least in portions is configured to record the force curve measured by the force measuring device during the winding operation.
8. The device according to claim 7, **characterized in** that the recording device is configured as a data logger which in being detachably mounted is configured to be read out at another place.
9. The device according to claim 7, **characterized in** that the recording device is configured to record the winding speed during the winding operation.
10. The device according to any one of claims 1 to 8, **characterized in** that the braking device (5) comprises an open and/or closed-loop control unit by which the braking action can be adapted automatically to the winding pretension.
11. The device according to claim 9, **characterized in** that the roll drive unit (7) is integrated into the open and/or closed loop of the open and/or closed-loop control unit, and the roll drive unit (7) can be controlled automatically for adaptation to the predetermined winding pretension.
12. The device according to any one of claims 8 to 11, **characterized in** that the data logger is connected to a dynamo which at least during the winding operation is driven by a rotating part of the device and the data logger is configured to be fed with electric current.